

PH 020593 EP-P

US

jul. 2002

## PATENT ABSTRACTS OF JAPAN

(11)Publication 10-173464  
number :

(43)Date of 26.06.1998  
publication of  
application :

(51)Int.Cl.

H03H 7/24

H03H 11/24

(21)Application 08-331970  
number :

(71)Applicant: NEC CORP

(22)Date of 12.12.1996  
filing :

(72)Inventor: TAKAHASHI HISATOSHI

### (54) STEP ATTENUATOR

#### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a step attenuator capable of minimizing a phase shift in a through state and an attenuation state.

**SOLUTION:** This attenuator is composed of resistors 5, 6, 7 and 9, on MOSFET 10 and a phase compensating circuit 13 including resistors 11 and 12 corresponding to an input terminal 1, an output terminal 2 and control terminals 3 and 4, and the resistors 7 and 9 and an FET 8 forms an attenuation switch setting circuit. The shift quantity of passing phase at the time of through operation and the time of attenuation operation is restrained at a minimum via a control signal to the control terminal 3 of the aforementioned attenuation switch setting circuit and the control terminal 4 of the phase compensating circuit 13.

